



IES INDOOR REPORT

PHOTOMETRIC FILENAME : AMD4AEG-P43-840-A-POE ALL ON_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM BALLABS TEST NO. 18091.0
 [TESTLAB] BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
 [ISSUEDATE] 24-AUG-2020
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC - CARTHAGE, MO 64836
 [LUMINAIRE] 2x4' RECESSED LED TROFFER
 [MORE] FROSTED ACRYLIC DIFFUSER
 [LUMCAT] AMD4AEG-P43-840-A-PoE ALL ON
 [LAMPCAT] HLM 80 CRI, 4000K CCT
 [SEARCH_SOURCETYPE]LED
 [SEARCH_APPLICATION]INDOOR,DIRECT
 [SEARCH_MOUNTING]RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10358
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	131
Total Luminaire Watts	78.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.18
Spacing Criterion (90-270)	1.16
Spacing Criterion (Diagonal)	1.30
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	1.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4982	5101	5076
55	4225	4548	4474
65	3528	3882	3090
75	2686	2445	1748
85	2049	1534	1356

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	4375.737	4375.737	4375.737	4375.737	4375.737
5	4357.190	4357.190	4353.992	4352.074	4352.074
10	4277.887	4272.771	4265.096	4255.503	4252.945
15	4102.013	4092.420	4073.874	4056.606	4052.129
20	4011.199	4002.245	3975.384	3944.686	3935.093
25	3706.138	3700.382	3672.242	3642.184	3619.160
30	3421.542	3411.949	3382.530	3343.518	3318.576
35	3142.703	3139.505	3119.679	3080.667	3067.876
40	2808.223	2814.618	2817.176	2789.676	2780.083
45	2459.673	2492.290	2518.511	2518.511	2506.360
50	2056.123	2093.856	2149.496	2174.438	2159.089
55	1692.224	1740.190	1821.412	1836.761	1791.993
60	1338.559	1391.640	1483.734	1385.245	1324.489
65	1041.172	1103.847	1145.417	999.602	911.985
70	757.856	828.205	785.995	624.192	558.958
75	485.411	530.819	441.923	344.073	315.933
80	287.793	294.189	230.235	189.944	183.548
85	124.710	110.641	93.373	83.780	82.501
90	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1570.75	N.A.	15.20
0-30	3264.1	N.A.	31.50
0-40	5206.46	N.A.	50.30
0-60	8712.89	N.A.	84.10
0-80	10240.37	N.A.	98.90
0-90	10358.29	N.A.	100.00
10-90	9945.59	N.A.	96.00
20-40	3635.71	N.A.	35.10
20-50	5554.8	N.A.	53.60
40-70	4553.95	N.A.	44.00
60-80	1527.48	N.A.	14.70
70-80	479.96	N.A.	4.60
80-90	117.92	N.A.	1.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	10358.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	412.70
10-20	1158.04
20-30	1693.36
30-40	1942.35
40-50	1919.09
50-60	1587.35
60-70	1047.52
70-80	479.96
80-90	117.92
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	134	134	134	134	131	131	131	131	125	125	125	120	120	120	115	115	115	113
1	124	119	115	111	121	116	112	109	112	108	105	107	105	102	103	101	99	97
2	113	105	98	92	111	103	96	91	99	93	88	95	90	86	92	88	85	82
3	104	93	84	77	101	91	83	77	88	81	75	85	79	74	82	77	73	70
4	96	83	73	66	93	81	72	66	78	71	65	76	69	64	73	68	63	61
5	88	74	65	57	86	73	64	57	71	63	57	69	61	56	66	60	55	53
6	82	67	57	51	80	66	57	50	64	56	50	62	55	49	60	54	49	47
7	76	61	52	45	74	60	51	45	59	50	44	57	50	44	55	49	44	42
8	71	56	47	40	69	55	46	40	54	46	40	52	45	40	51	44	39	37
9	66	51	42	36	65	51	42	36	50	42	36	48	41	36	47	41	36	34
10	62	48	39	33	61	47	39	33	46	38	33	45	38	33	44	37	33	31

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UGR TABLE - CORRECTED

Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size UGR Viewed Crosswise

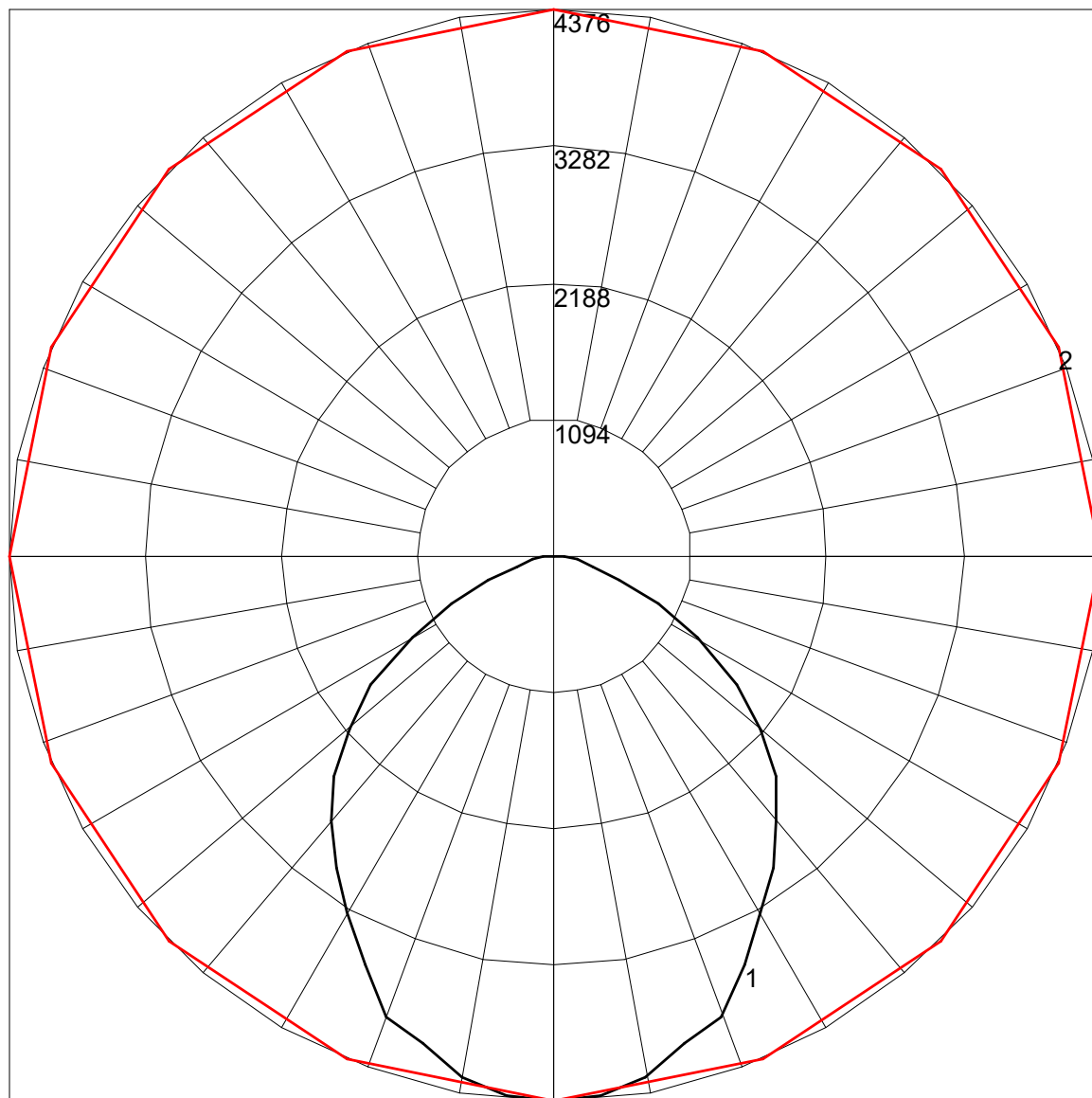
X=2H	Y=2H	16.4	18.0	16.8	18.3	18.6	16.6	18.2	17.0	18.5	18.8
	3H	18.0	19.4	18.4	19.7	20.1	17.6	19.0	18.0	19.3	19.7
	4H	18.5	19.8	18.9	20.1	20.5	17.8	19.1	18.2	19.5	19.9
	6H	18.8	20.0	19.2	20.4	20.8	18.0	19.2	18.4	19.6	19.9
	8H	18.9	20.1	19.3	20.5	20.9	18.0	19.2	18.4	19.6	20.0
	12H	19.0	20.1	19.4	20.5	20.9	18.0	19.1	18.5	19.5	20.0

UGR Viewed Endwise

4H	2H	17.1	18.4	17.5	18.7	19.1	17.2	18.5	17.6	18.9	19.3
	3H	18.8	19.9	19.2	20.3	20.7	18.4	19.5	18.8	19.9	20.3
	4H	19.4	20.4	19.9	20.8	21.3	18.7	19.6	19.1	20.1	20.5
	6H	19.9	20.7	20.3	21.2	21.6	18.9	19.7	19.3	20.2	20.6
	8H	20.0	20.8	20.5	21.2	21.7	18.9	19.7	19.4	20.2	20.6
	12H	20.1	20.8	20.6	21.3	21.8	19.0	19.7	19.4	20.2	20.6
8H	4H	19.6	20.4	20.0	20.8	21.3	18.9	19.7	19.3	20.1	20.6
	6H	20.1	20.8	20.6	21.3	21.7	19.2	19.8	19.6	20.3	20.8
	8H	20.3	20.9	20.8	21.4	21.9	19.2	19.8	19.8	20.3	20.8
	12H	20.5	21.0	21.0	21.5	22.0	19.4	19.9	19.9	20.4	20.9
12H	4H	19.5	20.3	20.0	20.7	21.2	18.9	19.6	19.4	20.1	20.6
	6H	20.1	20.7	20.6	21.2	21.7	19.2	19.8	19.7	20.2	20.8
	8H	20.4	20.9	20.9	21.4	21.9	19.3	19.8	19.8	20.3	20.9

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 4375.737 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)